RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number:	/0/583, 676
Source:	IFWP
Date Processed by STIC:	2/10/06
•	

ENTERED

CRF Errors Edited by the STIC Systems Branch

Serial	Number: 10/583, 676	CRF Edit Date: 7/0/C
	Realigned nucleic acid/amino acid numbers/text itext "wrapped" to the next line	n cases where the sequence
	Corrected the SEQ ID NO. Sequence numbers ed	lited were:
	Inserted or corrected a nucleic number at the end NO's edited:	of a nucleic line. SEQ ID
	Deleted: invalid beginning/end-of-file text ;	page numbers
	Inserted mandatory headings/numeric identifiers,	specifically:
	Moved responses to same line as heading/numeric	identifier, specifically:
	Other:	



IFWP

RAW SEQUENCE LISTING DATE: 07/10/2006
PATENT APPLICATION: US/10/583,676 TIME: 18:21:45

Input Set : A:\PTO.AMC.txt

3 <110> APPLICANT: Festersen, Rikke Monica

Output Set: N:\CRF4\07102006\J583676.raw

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Nielsen, Anders Viksoe
             Joergensen, Christel Thea
             Christensen, Lars Lehmann Hylling
     8 <120> TITLE OF INVENTION: Mashing Process
     10 <130> FILE REFERENCE: 10429.204-US
C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/583,676
C--> 12 <141> CURRENT FILING DATE: 2006-06-19
     12 <160> NUMBER OF SEQ ID NOS: 20
     14 <170> SOFTWARE: PatentIn version 3.3
     16 <210> SEQ ID NO: 1
     17 <211> LENGTH: 332
     18 <212> TYPE: PRT
     19 <213> ORGANISM: Aspergillus aculeatus
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                                    40
     35 Gly Thr Trp Gly Ile Asp Tyr Ile Phe Pro Asp Thr Ser Ala Ile Ala
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     39 Thr Leu Val Ser Lys Gly Met Asn Ile Phe Arg Val Gln Phe Met Met
                           70
     43 Glu Arg Leu Val Pro Asn Ser Met Thr Gly Ser Tyr Asp Asp Ala Tyr
                                            90
     47 Leu Asn Asn Leu Thr Thr Val Val Asn Ala Ile Ala Ala Gly Val
                   100
                                        105
     51 His Ala Ile Val Asp Pro His Asn Tyr Gly Arg Tyr Asn Asn Glu Ile
                                    120
     55 Ile Ser Ser Thr Ala Asp Phe Gln Thr Phe Trp Gln Asn Leu Ala Gly
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                                                   140
     59 Gln Phe Lys Asp Asn Asp Leu Val Ile Phe Asp Thr Asn Asn Glu Tyr
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                                               155
     63 Asn Thr Met Asp Gln Thr Leu Val Leu Asp Leu Asn Gln Ala Ala Ile
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                                           170
     67 Asp Gly Ile Arg Ala Ala Gly Ala Thr Ser Gln Tyr Ile Phe Ala Glu
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                                        185
     71 Gly Asn Ser Trp Ser Gly Ala Trp Thr Trp Ala Asp Ile Asn Asp Asn
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     75 Met Lys Ala Leu Thr Asp Pro Gln Asp Lys Leu Val Tyr Glu Met His
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215

220

76 210

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\07102006\J583676.raw

79 Gln Tyr 80 225	Leu Asp	Ser Asp		er Gly	Thr Se		Val (Cys V		Ser 240
83 Glu Thr 84	Ile Gly	Ala Glu 245	Arg Le		Ala Al 250	a Thr	Gln '	_	Leu :	Lys
87 Asp Asn	Gly Lys 260		Ile Le			r Ala	_			Asn
91 Asp Val		Thr Ala			Met Le				Ala .	Asn
95 Asn Thr 96 290		Trp Lys			Trp Tr			Gly F	?ro '	Trp
99 Trp Ala 100 305	Asp Tyr	Met Phe	Ser Me	et Glu			Gly 1	Pro A	Ala '	Tyr 320
100 303 103 Ser Gl	v Met Lei			alu Pro						320
104	, 200	325		J	330					
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108 <211>	LENGTH: 2	238								
109 <212>										
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114 Met Ly 115 1	s Leu Sei	r Leu Le	u ser i	Leu Ala	Thr L	eu Ala	ser	АТА	15	ser
118 Leu Gl	n Ara Ara	J I Ser As	n Phe (vs Glv		rn Asn	Thr	Δla		Ala
119	20	, 001 110	p me (25 25	0111 1	-pp		30		
122 Gly As	o Phe Thi	Leu Ty	r Asn A	Asp Leu	Trp G	ly Glu	Ser	Ala	Gly	Thr
123	35	_		10	_	-	45		=	
126 Gly Se	r Gln Cys	Thr Gl	_	Asp Ser	Tyr S	_	Asp	Thr	Ile	Ala
127 50	- mb C	- M O-	55 		. 01 0	60	0	**- 7	T	0
130 Trp Hi 131 65		70			7	5				80
134 Tyr Va 135	l Asn Ala	a Ala Le 85	u Thr I	Phe Thr	Pro T	hr Gln	Leu	Asn	Cys 95	Ile
138 Ser Se	r Ile Pro		r Trp I	Lys Trp		yr Ser	Gly	Ser		Ile
139	100		_	105		-	_	110		
142 Val Al		l Ala Ty			Leu A	la Glu		Ala	Ser	Gly
143	115	01 T 1		120			125	~ 1	~ 1	
146 Ser Se 147 13		GIU II	e Met \ 135	/al Trp	Leu A	.1a A1a 140		GIY	GIY	Ala
147 13 150 Gly Pr		· Ser Th		Ser Thr	· Tle A			Thr	Tle	Δla
150 GIY FI	o ire per	15		JCT TIIL		55	110	1111	110	160
154 Gly Va	l Asn Trr			Ser Gly			Asp	Thr	Thr	
155	•	165	•	•	170	-	-		175	
158 Tyr Se	r Phe Val	. Ala As	p Ser 1	Thr Thr	Glu S	er Phe	Ser	Gly	Asp	Leu
159	180			185				190		
162 Asn As	=	Thr Ty		_	Asn G	lu Gly		Ser	Asp	Glu
163	195	n Mher T		200	. mb ~	1 D	205	mb	~ 1.	0
166 Leu Ty		Inr Le	u Glu <i>F</i> 215	ara Gry	rnr G	lu Pro 220	rne	inr	GLY	ser
167 21 170 Asn Al		Thr Va		3] II ጥህም	Ser T		Tle	Glu		
170 ASH AL	a ayo met	23		u 1 y L		35				
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Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\07102006\J583676.raw

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Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\07102006\J583676.raw

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274 370
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277 Cys Ala Lys Gly Glu Gly Ala Pro Ser Asn Ile Val Gln Val Glu Pro
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281 Phe Pro Glu Val Thr Tyr Thr Asn Leu Arg Trp Gly Glu Ile Gly Ser
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296 <213> ORGANISM: Humicola insolens
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308 Arg Ser Leu Cys Glu Leu Tyr Gly Tyr Trp Ser Gly Asn Gly Tyr Glu
312 Leu Leu Asn Asn Leu Trp Gly Lys Asp Thr Ala Thr Ser Gly Trp Gln
                           55
316 Cys Thr Tyr Leu Asp Gly Thr Asn Asn Gly Gly Ile Gln Trp Ser Thr
                       70
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320 Ala Trp Glu Trp Gln Gly Ala Pro Asp Asn Val Lys Ser Tyr Pro Tyr
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324 Val Gly Lys Gln Ile Gln Arg Gly Arg Lys Ile Ser Asp Ile Asn Ser
              100
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328 Met Arg Thr Ser Val Ser Trp Thr Tyr Asp Arg Thr Asp Ile Arg Ala
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                               120
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332 Asn Val Ala Tyr Asp Val Phe Thr Ala Arg Asp Pro Asp His Pro Asn
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336 Trp Gly Gly Asp Tyr Glu Leu Met Ile Trp Leu Ala Arg Tyr Gly Gly
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340 Ile Tyr Pro Ile Gly Thr Phe His Ser Gln Val Asn Leu Ala Gly Arg
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                   165
344 Thr Trp Asp Leu Trp Thr Gly Tyr Asn Gly Asn Met Arg Val Tyr Ser
               180
                                   185
348 Phe Leu Pro Pro Ser Gly Asp Ile Arg Asp Phe Ser Cys Asp Ile Lys
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352 Asp Phe Phe Asn Tyr Leu Glu Arg Asn His Gly Tyr Pro Ala Arg Glu
                           215
                                               220
356 Gln Asn Leu Ile Val Tyr Gln Val Gly Thr Glu Cys Phe Thr Gly Gly
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360 Pro Ala Arg Phe Thr Cys Arg Asp Phe Arg Ala Asp Leu Trp
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Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\07102006\J583676.raw

364 <210> SEQ ID NO: 5 365 <211> LENGTH: 388 366 <212> TYPE: PRT 367 <213> ORGANISM: Humicola insolens 369 <400> SEQUENCE: 5 371 Met Lys His Ser Val Leu Ala Gly Leu Phe Ala Thr Gly Ala Leu Ala 375 Gln Gly Gly Ala Trp Gln Gln Cys Gly Gly Val Gly Phe Ser Gly Ser 379 Thr Ser Cys Val Ser Gly Tyr Thr Cys Val Tyr Leu Asn Asp Trp Tyr 40 383 Ser Gln Cys Gln Pro Gln Pro Thr Thr Leu Arg Thr Thr Thr Pro 55 387 Gly Ala Thr Ser Thr Thr Arg Ser Ala Pro Ala Ala Thr Ser Thr Thr 70 391 Pro Ala Lys Gly Lys Phe Lys Trp Phe Gly Ile Asn Gln Ser Cys Ala 90 395 Glu Phe Gly Lys Gly Glu Tyr Pro Gly Leu Trp Gly Lys His Phe Thr 100 105 399 Phe Pro Ser Thr Ser Ser Ile Gln Thr His Ile Asn Asp Gly Phe Asn 120 403 Met Phe Arg Val Ala Phe Ser Met Glu Arg Leu Ala Pro Asn Gln Leu 135 407 Asn Ala Ala Phe Asp Ala Asn Tyr Leu Arg Asn Leu Thr Glu Thr Val 150 155 411 Asn Phe Ile Thr Gly Lys Gly Lys Tyr Ala Met Leu Asp Pro His Asn 170 165 415 Phe Gly Arg Tyr Tyr Glu Arg Ile Ile Thr Asp Lys Ala Ala Phe Ala 180 185 419 Ser Phe Phe Thr Lys Leu Ala Thr His Phe Ala Ser Asn Pro Leu Val 195 200 423 Val Phe Asp Thr Asn Asn Glu Tyr His Asp Met Asp Gln Gln Leu Val 215 427 Phe Asp Leu Asn Gln Ala Ala Ile Asp Ala Ile Arg Ala Ala Gly Ala 230 235 431 Thr Ser Gln Tyr Ile Met Val Glu Gly Asn Ser Trp Thr Gly Ala Trp 250 245 435 Thr Trp Asn Val Thr Asn Asn Leu Ala Ala Leu Arg Asp Pro Glu 265 439 Asn Lys Leu Val Tyr Gln Met His Gln Tyr Leu Asp Ser Asp Gly Ser 275 280 443 Gly Thr Ser Thr Ala Cys Val Ser Thr Gln Val Gly Leu Gln Arg Val 295 447 Ile Gly Ala Thr Asn Trp Leu Arg Gln Asn Gly Lys Val Gly Leu Leu 315 448 305 310 451 Gly Glu Phe Ala Gly Gly Ala Asn Ser Val Cys Gln Gln Ala Ile Glu 325 330 455 Gly Met Leu Thr His Leu Gln Glu Asn Ser Asp Val Trp Thr Gly Ala 456 340 345

VERIFICATION SUMMARYDATE: 07/10/2006PATENT APPLICATION: US/10/583,676TIME: 18:21:46

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\07102006\J583676.raw

L:12 M:270 C: Current Application Number differs, Replaced Current Application No

L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date

Raw Sequence Listing before editing (for reference only)



IFWP

RAW SEQUENCE LISTING DATE: 07/06/2006
PATENT APPLICATION: US/10/583,676 TIME: 13:57:03

Input Set : A:\01-SQ Listing-19 Jun 2006.txt
Output Set: N:\CRF4\07062006\J583676.raw

3 <110> APPLICANT: Festersen, Rikke Monica
4 Nielsen, Anders Viksoe
5 Joergensen, Christel Thea
6 Christensen, Lars Lehmann Hylling
8 <120> TITLE OF INVENTION: Mashing Process
10 <130> FILE REFERENCE: 10429.204-US
C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/583,676
C--> 12 <141> CURRENT FILING DATE: 2006-06-19
12 <160> NUMBER OF SEQ ID NOS: 20
14 <170> SOFTWARE: PatentIn version 3.3

Does Not Comply Corrected Diskette Needed

ERRORED SEQUENCES

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Input Set: A:\01-SQ Listing-19 Jun 2006.txt
Output Set: N:\CRF4\07062006\J583676.raw

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VERIFICATION SUMMARY

PATENT APPLICATION: US/10/583,676

DATE: 07/06/2006 TIME: 13:57:04

Input Set : A:\01-SQ Listing-19 Jun 2006.txt
Output Set: N:\CRF4\07062006\J583676.raw

L:12 M:270 C: Current Application Number differs, Replaced Current Application No L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date L:1819 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:20